

# ANNUAL REPORT

## INDUSTRIAL COMBUSTION COORDINATED RULEMAKING

### FEDERAL ADVISORY COMMITTEE

Fiscal Year 1997

(October 1, 1996 - September 30, 1997)

EPA Emissions Standards Division (MD-13)  
Office of Air Quality Planning and Standards  
Environmental Protection Agency

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# ANNUAL REPORT

## GOAL

The overall goal of the Industrial Combustion Coordinated Rulemaking Federal Advisory Committee (Coordinating Committee) is to develop recommendations for a unified set of Federal air emissions regulations that will maximize environmental and public health benefits in a flexible framework at a reasonable cost of compliance, within the constraints of the Clean Air Act. These recommendations will also strive to avoid duplicative overlapping regulations for industrial-commercial-institutional sources, within the constraints of the Clean Air Act.

## DATE ESTABLISHED

- Chartered under the Federal Advisory Committee Act (FACA) on September 6, 1996 for 2 years. Charter may be renewed.
- First meeting October 1, 1996.

## SCOPE

The ICCR FACA process will develop recommendations for national emission standards for hazardous air pollutants (NESHAP) implementing section 112 and solid waste combustion regulations implementing section 129 of the Act, and may review and make recommendations for new source performance standards (NSPS) under section 111. The source categories for which recommendations are to be developed are:

- industrial, commercial, and institutional boilers;
- process heaters;
- industrial, commercial, and other non-hazardous solid waste combustors (excluding, municipal waste combustors and medical waste incinerators);
- stationary gas turbines; and
- stationary internal combustion (IC) engines.

## ORGANIZATION OF ICCR

The Federal Advisory Committee (Coordinating Committee) has established stakeholder Work Groups to collect information, perform analyses, and develop preliminary regulatory recommendations. Figure 1 illustrates the ICCR organization.

### *Coordinating Committee Roles*

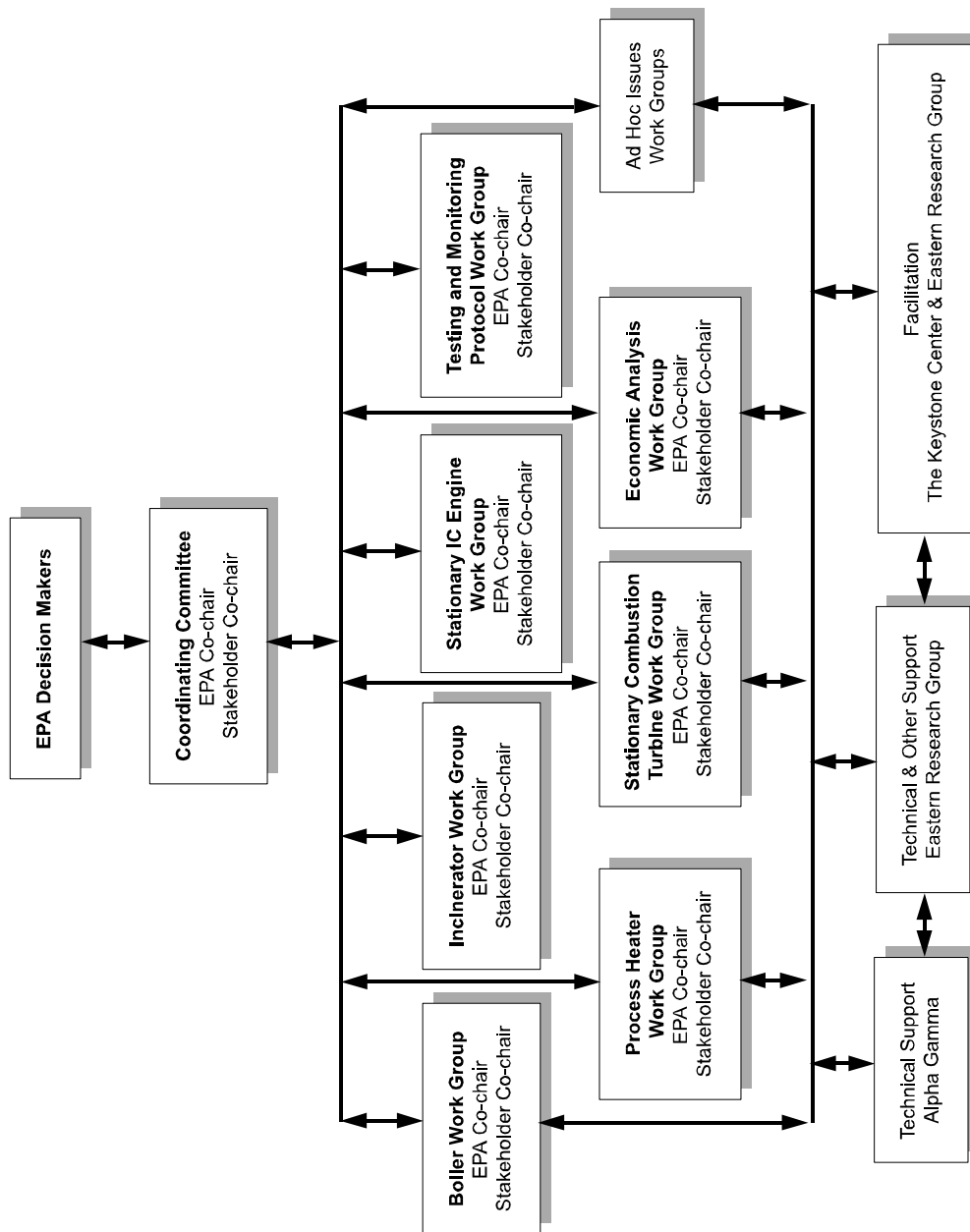
- establish ICCR organizational structure and procedures;
- develop overall schedule and milestones;
- track progress;
- provide general guidance to Work Groups;
- provide feedback to Work Groups to ensure consistency and thoroughness;
- coordinate issue resolution;
- consider and discuss regulatory recommendations from Work Groups; and
- based on recommendations proposed by Work Groups, develop and present recommendations to EPA.

### *Source Work Group Roles*

- plan specific approach for collecting information, performing analyses, and developing regulatory recommendations for their source category;
- brief Coordinating Committee on approach and progress; consider Committee feedback;
- gather and review quality of data and information;
- determine classes or subcategories of sources;
- identify and fill data gaps;
- determine MACT floor<sup>1</sup> for source category or subcategories;

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<sup>1</sup> Section 112 and 129 standards are based on maximum achievable control technology (MACT). The MACT floor is the least stringent level of emission reduction allowable, as specified in the Act.



**Figure 1. Organizational Structure for Industrial Combustion Coordinated Rulemaking**

- identify control techniques, pollution prevention techniques, and work practices to control emissions;
- develop regulatory alternatives;
- analyze emission, cost, and other impacts of each regulatory alternative;
- provide input for benefits and economic analysis to Economic Analysis Work Group; and
- develop and present regulatory recommendations with supporting rationale to Coordinating Committee.

### *Support Work Groups*

Two support Work Groups were created to provide specialized expertise and assistance to the Source Work Groups. These are:

- Testing and Monitoring Protocol Work Group; and
- Economic Analysis Work Group.

### *Stakeholder "Balance"*

The Coordinating Committee membership provides balanced representation of stakeholder interests, as required by FACA:

<u>Stakeholder Interest</u>	<u># of CC members</u>
Environmental/Env. Justice Organizations	5
State/Local Agencies	4
Combustion Source Owners/Operators	8
Manufacturers of Combustors or Control Devices	5
Fuel Producers and Suppliers	3
Labor or Academic Research	1
EPA	1
Work Group Stakeholder Co-chairs	<u>7</u>
TOTAL	34

The Work Groups, while not FACA committees, also strive for balanced representation. Membership is summarized in Table 1.

Table 1. ICCR Work Group Membership

	Boilers WG	Process Heaters WG	Incinerator WG	Gas Turbines WG	IC Engines WG	Testing and Monitoring Protocol	Economic Analysis WG
Environmental	3	1	3	1	--	--	1
State/local	5	1	4	--	3	3	--
Source	20	9	12	8	5	10	6
Manufacturer	4	3	5	5	8	4	1
Fuel Prod./Sup.	6	1	1	2	2	3	2
Labor/Research	--	--	--	--	1	--	--
EPA	1	1	1	1	2	1	1
TOTALS	39	16	26	17	21	21	11

## GENERAL SCHEDULE

The Act requires promulgation of section 112 and 129 standards for combustion sources by November 2000. Consistent with this requirement, the general schedule for the ICCR, beginning in October 1996, is:

Year 1	Data Collection
Year 2	Data analysis, recommendations on MACT floors and identification of regulatory options
Year 3	Recommendations for proposed standards
Year 4	Recommendations for promulgated standards

## FIRST YEAR ACHIEVEMENTS

The first year focused on developing the organizational structure and operating procedures for the ICCR, gathering data, and reviewing data. These objectives have been achieved, as described below.

### *Organization*

- Developed organizational structure and operating procedures for the ICCR.
- Documented these in the document "Industrial Combustion Coordinated Rulemaking: Organizational Structure and Process." June 1997. Revision 2.
- Formed Work Groups.

### *Meetings*

- The Coordinating Committee held 6 meetings. The Work Groups each held from 3 to 10 meetings. See attachment 1 for a list of meeting dates and locations. All meetings were open to the public.
- The Coordinating Committee and Work Groups formed several subgroups to address issues or complete specified tasks. Subgroups held numerous meetings and conference calls. See attachment 2 for a summary of subgroups, which were established; some were formed for a short time, accomplished their task, and no longer exist -- others remain active.



## *Data Gathering*

Two types of data were collected for use in regulatory development:

- Inventory data (number of sources, location, fuels or wastes burned, etc.); and
- Hazardous air pollutants (HAPs) emission test data.

Inventory data were collected from existing federal and state electronic databases for all categories of combustion sources covered by the ICCR and compiled into an inventory database. Additional inventory data for sources that combust non-fossil fuels or wastes were collected by survey and compiled into a survey database.

### *Inventory Database:*

- Compiled by EPA from EPA and State databases into an inventory database.
- Version 1 of the inventory database containing data from Aerometric Information Retrieval System (AIRS) and Ozone Transport Assessment Group (OTAG) Databases released in January 1997.
- Version 2 of the inventory database incorporating State data merged with AIRS and OTAG data released in April 1997. Contains over 140,000 combustion units at approximately 45,000 facilities.
- Work Groups reviewed inventory database for misclassified units and errors, and provided corrections by September 1997.
- EPA is incorporating corrections into a planned Version 3 of the inventory database for release in fiscal year 1998.

### *Survey Database:*

- Recommended survey form and sampling plan developed by the Information Collection Request (ICR) Subgroup established by the Coordinating Committee, submitted to the Coordinating Committee, and transmitted to EPA in recommendations from the Committee to EPA.
- EPA mailed out 12,000 surveys in June 1997. Survey sent to facilities in inventory database with incinerators, boilers, or process heaters burning non-fossil fuels or wastes.
- Surveys returned in July and August 1997.

- EPA compiled survey response data and released survey database version 1 on October 15, 1997.

#### Emission Database:

- EPA reviewed test reports in the source test information retrieval system (STIRS). These reports were previously collected from States by EPA.
- EPA compiled HAP emission data from these test reports into an emissions database.
- Version 1 of the emissions database was released in June 1997.
- Additional test reports are being collected.

#### *Technical Analysis and Other Ongoing Activities*

- Work Groups are reviewing survey database.
- Work Groups are identifying preliminary subcategories and priorities.
- Work Groups are developing testing recommendations.
- Work Groups are identifying potential control techniques, including pollution prevention and operating practices.
- Work Groups are making preliminary MACT floor assessments.
- Coordinating Committee is developing recommendations for the definition of non-hazardous solid waste for regulations developed under section 129.
- Coordinating Committee is tracking progress of Work Groups and subgroups.
- Coordinating Committee is reviewing and considering information developed by Work Groups and providing feedback.

#### UPCOMING ACTIVITIES FOR SECOND YEAR

While the schedule of activities may vary among Work Groups, the primary activities for fiscal year 1998 are as follows:

- Solid waste definition recommendations;

- Emission Testing recommendations;
- Preliminary MACT floor determinations;
- Identification of potential control techniques and possible regulatory alternatives;
- Initial regulatory impacts analyses; and
- Preliminary regulatory recommendations.

## EXPENDITURES

Total ICCR FACA-related expenditures by EPA for fiscal year 1997 are approximately \$1.1 million. These include expenditures associated with Coordinating Committee, Work Group, and subgroup meetings, preparation of meeting minutes, travel to meetings and maintenance of the ICCR electronic bulletin board. This does not include regulatory development costs that would have been incurred without the FACA process, such as data collection, database development, and technical analysis. Attachment 3 shows a cost breakout of ICCR FACA expenses incurred by EPA. Stakeholders have also incurred significant expenditures for travel to meetings, review of databases, and other activities.

## WHERE TO OBTAIN ADDITIONAL INFORMATION

Interested persons can find out more about the ICCR by accessing the technology transfer network (TTN) through the World Wide Web. The internet address is <http://www.epa.gov/ttn/>. Click on "Directory of TTN sites" and then on "ICCR".

The TTN contains up-to-date information on the ICCR including:

- the ICCR organizational structure and procedures document;
- lists of Coordinating Committee and Work Group members;
- schedule for upcoming meetings;
- minutes of previous meetings;
- Work Group status reports;

- the inventory database version 2;
- the survey database version 1; and
- the emission test database version 1.

ATTACHMENT 1

LIST OF COORDINATING COMMITTEE AND WORK GROUP  
MEETING DATES AND LOCATIONS

<b>Group</b>	<b>Meeting Date</b>	<b>Location</b>
Coordinating Committee	October 1 & 2, 1996	Chapel Hill, NC
	January 8 & 9, 1997	Alexandria, VA
	March 19 & 20, 1997	Chicago, IL
	May 21 & 22, 1997	Durham, NC
	June 22 & 23, 1997	Long Beach, CA
	September 16 & 17,	Durham, NC
Boilers Work Group	November 7, 1996	RTP, NC
	January 7, 1997	Alexandria, VA
	March 18, 1997	Chicago, IL
	April 4, 1997	Teleconference
	May 1, 1997	RTP, NC
	May 22, 1997	Durham, NC
	June 18, 1997	Houston, TX
	July 24, 1997	Long Beach, CA
	August 19, 1997	Denver, CO
Process Heaters Work Group	September 18, 1997	Durham, NC
	November 7, 1996	RTP, NC
	December 19, 1996	Teleconference
	January 7, 1997	Alexandria, VA
	February 11, 1997	Houston, TX
	March 18, 1997	Chicago, IL
	April 4, 1997	Teleconference
	May 9, 1997	Teleconference
	May 22, 1997	Durham, NC
	June 19, 1997	Washington D.C.
Incinerators Work Group	July 24, 1997	Long Beach, CA
	September 18, 1997	Durham, NC
	November 7, 1996	RTP, NC
	December 17, 1996	Washington D.C.
	January 30, 1997	RTP, NC
	March 11, 1997	Orlando, FL
	April 23, 1997	Teleconference
	May 8, 1997	RTP, NC
	June 4, 1997	RTP, NC
	July 15, 1997	RTP, NC
	September 18, 1997	Durham, NC

<b>Group</b>	<b>Meeting Date</b>	<b>Location</b>
Stationary Gas Turbines Work Group	October 2, 1996	Chapel Hill, NC
	November 7, 1996	Durham, NC
	January 7, 1997	Alexandria, VA
	February 19, 1997	RTP, NC
	March 18, 1997	Chicago, IL
	April 2, 1997	Teleconference
	April 23 & 24, 1997	San Francisco, CA
	May 22, 1997	Durham, NC
	June 24, 1997	Long Beach, CA
	September 18, 1997	Durham, NC
Stationary IC Engines Work Group	October 2, 1996	Chapel Hill, NC
	November 7, 1996	Durham, NC
	January 11, 1997	Alexandria, VA
	February 11, 1997	RTP, NC
	March 18, 1997	Chicago, IL
	May 22, 1997	Durham, NC
	June 24, 1997	Long Beach, CA
	September 18, 1997	Durham, NC
Testing/Monitoring Protocol Work Group	December 11, 1996	Teleconference
	January 28 & 29, 1997	Washington D.C.
	March 17 & 18, 1997	Chicago, IL
	May 9, 1997	Teleconference
	May 27, 1997	Teleconference
	June 2, 1997	Teleconference
	June 24, 1997	Long Beach, CA
	July 29, 1997	Teleconference
	August 28, 1997	Teleconference
Economic Analysis Work Group	December 12, 1996	Teleconference
	January 31, 1997	Teleconference
	February 25, 1997	Teleconference
	April 25, 1997	Teleconference
	July 9, 1997	Teleconference
	August 19, 1997	Denver, CO

ATTACHMENT 2

ICCR SUBGROUPS AS OF SEPTEMBER 1997



## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
COORDINATING COMMITTEE (34)	ICCR Document	6	Review draft document outlining organizational structure and administrative procedures for ICCR Advisory Committee, recommend revisions to document, and incorporate changes adopted by the Coordinating Committee (CC)
	ICCR Budget	14	Review estimated budget and recommend revisions
	Information Collection Request (ICR)	17	Review ICR developed by EPA, consider information in ICCR inventory database and Work Group recommendations, and develop a revised ICR and sampling plan, and submit revised ICR to EPA as a CC recommendation
	Solid Waste Definition Process	8	Review issues associated w/solid waste under Section 129 of CAA, develop recommendations on: (1) Whether CC should proceed in developing a definition, and (2) If recommendation is to proceed, the process and procedure for how to proceed.
	Solid Waste Definition	11	Develop recommendations for the definition of solid waste for purposes of section 129. Report back to CC in September. Present recommendations to CC by November.

## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
COORDINATING COMMITTEE (Continued)	Subgroup Tracking	5	Compile a list of subgroups within the ICCR, identify their mission, and the timeframe for achieving their mission
	Milestone Tracking	6	Track Coordinating Committee, Work Group, Subgroup, and ad hoc group activities by compiling information and presenting it for discussion at the Coordinating Committee meeting. This is a non-recommending subgroup
	ICCR Source Category Survey/Inventory Database Update	EPA only	Update ICCR inventory database with additional source inventory data obtained from States, through EPA ICR, and revisions (additions, deletions, and modifications) recommended by Work Groups
	ICCR Emission Database Update	EPA only	Update ICCR emission database with additional source test emission test data

## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
TESTING AND MONITORING (21)	Cost Model	2	Develop a cost model for Source Work Groups to provide consistent test plan development
	Evaluation of Formaldehyde Test Issues	2	Review and summarize knowledge of formaldehyde test method issues and their potential effects on the ICCR emissions database
	Coordination w/Work Groups	5	Act as a conduit for Work Group questions on testing, POMs, cost models, etc.
	Guidance Documents (on Non-detects, QA/QC, and test methods)	8	Provide generic guidance on evaluating the emissions data, and screening process for adding additional data in the existing emissions database
			Provide recommendations to the Source Work Groups on potential HAPs to look for in future testing
			Provide guidance on what methods have been used and promising methods that could be considered by trade associations.
ECONOMICS (11)	None	Not Applicable	Not Applicable (NA)

## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
PROCESS HEATERS (16)	De Minimis Levels	6	Develop a rational for a lower level cut-off for process heaters to be surveyed
	Information Collection	5	Review voluntary information collection plans for consistency with EPA's criteria
	Trace Constituents	6-7	Address the CCs suggestion to identify the HAPs of interest resulting from input trace constituents such as chlorine and mercury
BOILERS (38)	Fossil Fuel-Fired Boilers	17	QA and recommend changes to population database for fossil fuel fired boilers
			Review emissions database, recommend changes, and recommend further testing
			Develop preliminary subcategories
	Wood-Fired Boilers	9	QA and recommend changes to population database for wood fired boilers
			Review emissions database, recommend changes, and recommend further testing
			Develop preliminary subcategories

## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
BOILERS (Continued)	Non-fossil Fuel-Fired Boilers	14	QA and recommend changes to population database
			Review emissions database, recommend changes, and recommend further testing
			Develop preliminary subcategories
	State Regulation	5	Obtain relevant information from States to characterize limits and controls for boilers
			Develop a database of relevant State information to be combined with inventory information
	Waste Definition	5	Develop preliminary recommendations for a definition of solid waste
TURBINES	Database Enhancement	5	QA and recommend changes to the inventory database, and summarize information in the database
			Review emissions test data
	Subcategory Analysis	4	Identify potential subcategories, minimize applicable subcategories based on gathered information, and summarize the selected subcategories in a memorandum

## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
TURBINES (Continued)	HAP Reduction Technologies	7	Identify good operating practices, and draft a memorandum
			Investigate technologies for HAP prevention or reduction for new and existing sources, and provide an interim report.
	HAP vs Criteria Pollutant	2	Identify the relationship of HAPs vs. Criteria emissions, and document results
			Identify turbine factors which directly affect HAP emissions
			Identify options for regulatory development
	Test Methods, Monitoring, and Testing	3	Identify potential HAPs emitted from turbines, and provide a list
			Draft testing protocol for HAP emissions and testing of control device efficiencies, and estimate testing budget needs
	Task Group Planning	2	Track progress of Work Group task groups and to recommend formation/closure of task groups

## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
IC ENGINES (23)	Emissions	18	Review emissions test data gathered in ICCR database
			Develop list of pollutants and corresponding test methods
			Develop a test plan for future IC engines emissions testing
	Population and Structure Database	10	Review and enhance EPA population data for IC engines
			Use data to determine subcategories, control devices, model plants, and MACT floor
	Dioxin	6	Resolve the CC's concern about dioxin and mercury emissions from IC engines. Document findings.
INCINERATORS (29)	Subgroup 1	8	Determine which combustion units are in the ICWI category and to identify sources of ICWI inventory and emission data readily available, both from the EPA database and other sources
	Subgroup 2	6	Determine what sources, other than ICWI, are in the incinerator category and to begin an inventory of incinerators. The inventory of incinerators will be used to determine which facilities will receive the questionnaire.

## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
INCINERATORS (Continued)	Information Collection	4	Work with the Boiler and Process Heater Work Groups and Coordinating Committee to determine how to best collect the necessary information for the ICCR database
	Scoping	4	Determine the scope of Work Group (addressing such issues as flares and metal recovery units), and documenting the arguments of those units that should be of lower priority or should be addressed by EPA under other rulemakings
	Definition of Solid Waste	10	Work with Boiler and Process Heater Work Groups to develop a definition of solid waste to be used in the ICCR.
	Source Database Review Subgroup 1 (Pathological, Crematory, and Pharmaceutical)	5	Identify database entries that belong in the subgroup and which belong in another subgroup, another Work Group, or not in the ICCR
			QA inventory and emissions databases, and determine data gaps that may be filled by additional questionnaires and by testing
			Develop recommendations for subcategories and model plants



## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
INCINERATORS (Continued)	Source Database Review Subgroup 2 (Petroleum, Chemicals, Off gas, Soil, Plastic, and Sludge)	3	Identify database entries that belong in the subgroup and which belong in another subgroup, another Work Group, or not in the ICCR
			QA inventory and emissions databases, and determine data gaps that may be filled by additional questionnaires and by testing
			Develop recommendations for subcategories and model plants
	Source Database Review Subgroup 3 (Wood, Wood Products, and Ovens)	5	Identify database entries that belong in the subgroup and which belong in another subgroup, another Work Group, or not in the ICCR
			QA inventory and emissions databases, and determine data gaps that may be filled by additional questionnaires and by testing
			Develop recommendations for subcategories and model plants

## ICCR SUBGROUP TRACKING SHEET

GROUP/ (Number of members)	Subgroup Information		
	Name	Number of Members	Mission/Goal/Products
INCINERATORS (Continued)	Source Database Review Subgroup 4 (Metals, Rubber, Can Burn-off, and Bottle Burn-off)	4	Identify database entries that belong in the subgroup and which belong in another subgroup, another Work Group, or not in the ICCR
			QA inventory and emissions databases, and determine data gaps that may be filled by additional questionnaires and by testing
			Develop recommendations for subcategories and model plants
	Source Database Review Subgroup 5 (Small Municipal Waste Combustors, Landfill Gas Flares, Agricultural, Concrete, and Fiberglass)	6	Identify database entries that belong in the subgroup and which belong in another subgroup, another Work Group, or not in the ICCR
			QA inventory and emissions databases, and determine data gaps that may be filled by additional questionnaires and by testing
			Develop recommendations for subcategories and model plants
	Waste definition support group	10	Provide support to the 2 Work Group members who are on the Coordinating Committee Solid Waste Definition Subgroup

## ATTACHMENT 3

### FISCAL YEAR 1997 ICCR EXPENDITURES FOR FACA-RELATED ACTIVITIES

[An electronic copy is contained in the Adobe Acrobat version of this report (Annrept.pdf) but not in the WordPerfect® version (Annrept.wp6)]

ICCR Federal Advisory Committee Expenses for FY 1997

	Annual Report, Fiscal Year 1997					
	October 1, 1996 - September 30, 1997					
	<b>Table 1. Committee Costs (See notes 1 and 2)</b>					
		<b>1st quarter</b>	<b>2nd quarter</b>	<b>3rd quarter</b>	<b>4th quarter</b>	<b>Current</b>
	<b>Description</b>	<b>Oct - Dec</b>	<b>Jan - Mar</b>	<b>Apr - Jun</b>	<b>Jul - Sep</b>	<b>Fiscal Year</b>
<b>1. Personnel Payments</b>	(A) Non-Federal Members	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
	(B) Federal Members	\$24,637.77	\$20,161.59	\$17,851.24	\$29,981.40	<b>\$ 92,632.00</b>
	(C) Federal Staff	\$42,680.42	\$34,926.27	\$30,924.00	\$51,937.30	<b>\$ 160,468.00</b>
	(D) Nonmember Consultants	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
	<b>Total Personnel Payments</b>	<b>\$67,318.19</b>	<b>\$55,087.86</b>	<b>\$48,775.24</b>	<b>\$81,918.70</b>	<b>\$ 253,100.00</b>
<b>2. Travel and Per Diem</b>	(A) Non-federal Members	\$ 5,930.99	\$ 15,690.38	\$ 13,555.03	\$ 26,531.12	<b>\$ 61,707.52</b>
	(B) Federal Members	\$ 560.30	\$ 3,559.62	\$ 3,209.35	\$ 3,949.29	<b>\$ 11,278.56</b>
	(C) Federal Staff	\$ 515.78	\$ 9,577.82	\$ 2,552.98	\$ 9,077.70	<b>\$ 21,724.28</b>
	(D) Nonmember Consultants					<b>\$0.00</b>
	<b>Total Travel and Per Diem</b>	<b>\$ 7,007.07</b>	<b>\$ 28,827.82</b>	<b>\$ 19,317.36</b>	<b>\$ 39,558.11</b>	<b>\$ 94,710.36</b>
<b>3. Other</b>	(A) Contractor Support Costs	\$ 189,380.97	\$ 160,621.89	\$142,868.99	\$249,093.52	<b>\$ 741,965.37</b>
	(A.1) Labor	\$ 173,516.30	\$ 141,991.97	\$125,720.84	\$211,149.92	<b>\$ 652,379.03</b>
	(A.2) Travel	\$ 6,629.10	\$ 15,106.70	\$ 13,151.07	\$ 29,085.86	<b>\$ 63,972.74</b>
	(A.3) Other (except rental)	\$ 9,235.58	\$ 3,523.22	\$ 3,997.07	\$ 8,857.73	<b>\$ 25,613.60</b>
	(B) Rental	\$ 4,644.19	\$ 6,857.51	\$ -	\$ 15,049.45	<b>\$ 26,551.15</b>
	(C) Other Committee Costs (All Other Costs)	\$ -	\$ 1,578.00	\$ 252.00	\$ 9,229.00	<b>\$ 11,059.00</b>
	Significant expenses (Greater than \$1000) (Contained in Item 3.C. above) :					
	(D) Equipment				\$ 8,221.00	<b>\$ 8,221.00</b>
	(E) Supplies					<b>\$ -</b>
	(F) Maintenance					<b>\$ -</b>
	(G) Postage, Courier, and Phone					<b>\$ -</b>
	(H) Printing, Graphics, FR Notices		\$ 1,578.00	\$ 252.00	\$ 1,008.00	<b>\$ 2,838.00</b>
	( I ) Shipping & Distribution					<b>\$ -</b>
	( J ) Miscellaneous Expenses					<b>\$ -</b>
	<b>Total Other</b>	<b>\$ 194,025.16</b>	<b>\$ 169,057.40</b>	<b>\$143,120.99</b>	<b>\$273,371.97</b>	<b>\$ 779,575.52</b>
	<b>GRAND TOTAL</b>	<b>\$ 268,350.42</b>	<b>\$ 252,973.09</b>	<b>\$211,213.59</b>	<b>\$394,848.78</b>	<b>\$ 1,127,385.88</b>
	Footnote 1: These costs do not include any direct regulatory development costs. These are administrative costs associated					

ICCR Federal Advisory Committee Expenses for FY 1997

	with the Federal Advisory Committee. For example, the costs include meeting facilitation, meeting preparations, and				
	attendance, and meeting minutes. The costs do not include technical activities such as data collection, database				
	development, and technical analysis.				
	Footnote 2: A description of the major cost components is summarized on Table 2.				

Details on ICCR Federal Advisory Committee Expenses for FY 1997

	Annual Report, Fiscal Year 1997		
	October 1, 1996 - September 30, 1997		
	<b>Table 2. Summary of Major Cost Components (See note 1)</b>		
		<b>Current</b>	
		<b>Fiscal Year</b>	<b>Description of Component</b>
<b>1. Personnel Payments</b>	(A) Non-Federal Members	<b>\$0.00</b>	
	(B) Federal Members	<b>\$ 92,632.00</b>	CC EPA Co-chair and Alternate
	(C) Federal Staff	<b>\$ 160,468.00</b>	WG EPA Co-chairs and Alternates, Support Staff
	(D) Nonmember Consultants	<b>\$0.00</b>	
	<b>Total Personnel Payments</b>	<b>\$ 253,100.00</b>	
<b>2. Travel and Per Diem</b>	(A) Non-federal Members	<b>\$ 61,707.52</b>	Travel assistance for CC and WG Members: Environmental, State/local, Small Entity Representatives
	(B) Federal Members	<b>\$ 11,278.56</b>	CC EPA Co-chair and Alternate
	(C) Federal Staff	<b>\$ 21,724.28</b>	WG EPA Co-chairs and Alternates
	(D) Nonmember Consultants	<b>\$0.00</b>	
	<b>Total Travel and Per Diem</b>	<b>\$ 94,710.36</b>	
<b>3. Other</b>	(A) Contractor Support Costs	<b>\$ 741,965.37</b>	
	(A.1) Labor	<b>\$ 652,379.03</b>	
	Facilitation	<b>\$ 212,979.85</b>	Facilitation support for CC, WG, and Subgroup meetings
	Meeting Preparation and Attendance	<b>\$ 244,347.75</b>	Logistics, agenda and presentation development, contractor attendance for CC, WG, and Subgroup meetings
	Meeting Minutes	<b>\$ 137,070.71</b>	Flash and full minutes of CC, WG, Subgroup meetings
	TTN	<b>\$ 37,435.93</b>	Convert and post items of TTN, Alerts, and List-Server
	Other	<b>\$ 20,544.79</b>	Membership correspondence, production of ICCR document, etc.
	(A.2) Travel	<b>\$ 63,972.74</b>	Contractor and Facilitator travel to CC, WG, Subgroup meetings
	(A.3) Other (except rental)	<b>\$ 25,613.60</b>	Telephone, copying, postage, supplies, etc.
	(B) Rental	<b>\$ 26,551.15</b>	Meeting rooms and audio/visual equipment
	(C) Other Committee Costs (All Other)	<b>\$ 11,059.00</b>	See Items (D) and (H) for breakout
	Significant expenses (Greater than \$1000) (Contained in Item 3.C. above) :		
	(D) Equipment	<b>\$ 8,221.00</b>	LitePro projector
	(E) Supplies	<b>\$ -</b>	
	(F) Maintenance	<b>\$ -</b>	
	(G) Postage, Courier, and Phone	<b>\$ -</b>	

Details on ICCR Federal Advisory Committee Expenses for FY 1997

	(H) Printing, Graphics, FR Notices	\$ 2,838.00	Printing meeting announcements in Federal Register
	( I ) Shipping & Distribution	\$ -	
	( J ) Miscellaneous Expenses	\$ -	
	Total Other	\$ 779,575.52	
	<b>GRAND TOTAL</b>	<b>\$ 1,127,385.88</b>	
	Footnote: These costs do not include any direct regulatory development costs. These are administrative costs associated		
	with the Federal Advisory Committee. For example, the costs include meeting facilitation, meeting preparations and		
	attendance, and meeting minutes. The costs do not include technical activities such as data collection, database		
	collection, database development, and technical analysis.		